FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Typ	e Responses)														
	d Address of CE RICHA	Reporting Person- ARD P	<u>*</u>	2. Issuer KLA TI		nd Ticke R CORI			symbo	ol	5	5. Relationsh X Director	nip of Reporti (Chec	k all applicat		
		(First) R CORPORAT RIVE	(Middle) ION, ONE	3. Date of 01/31/20		Transact	tion (Mo	onth/Da	ay/Ye	ear)		X Officer (give title below) Pres	Oth	ner (specify bel	ow)
MIL DITEA	G GA 050	(Street)		4. If Ame	ndment,	Date Ori	ginal Fi	led(Mon	nth/Day	y/Year)		_X_ Form filed	or Joint/Gro	Person		ine)
MILPITA (City)		(State)	(Zip)			Table l	Non	Dorivo	ativo	Conwit	ios Agguir	rod Dispose	ed of, or Ben	oficially Own	and	
1.Title of Se (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year)	2A. Deen Execution any (Month/D	Date, i	3. Tran Code (Instr.	saction	4. Se or D	ecurit vispos		uired (A)	5. Amount	of Securities lowing Repor	Beneficially	6. Ownership Form:	7. Nature of Indirect Beneficial Ownership
				(Wollan E	ay/ 1 car	Code	e V	Amo	ount	(A) or (D)	Price	(mstr. 5 and	1 1)		or Indirect (I) (Instr. 4)	
Common	Stock		01/31/2012			M		1,00	00	A 5	\$ 40.14	118,735			D	
Common	Stock		01/31/2012			S(1)	1	21,0	000	D :	\$ 51.5445 (2)	97,735			D	
Common Units (3)	Stock - Re	estricted Stock										201,400	<u>(5)</u>		D	
Reminder: R	Report on a se	eparate line for each	Ch class of securities	- Derivativ	ve Secur	rities Acq	Per in t dis uired, l	rsons his fo plays Dispos	orm a a cu	are not urrently	required y valid Of neficially	I to respon MB contro	n of informa d unless th number.		ned SEC	1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Yea	3A. Deemed Execution Date, i r) any (Month/Day/Yea	Code	5. I of De See Ac (A Dis of (In	Number rivative curities quired or or sposed (D) str. 3, 4, 15)	6. Date Expira (Montl	Exerc tion Da	cisabl ate	le and	7. Title of Unde Securiti			9. Number Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form o Derivat Security Direct (or India	f Beneficia Ownershi (Instr. 4) D) ect
				Code	V (A	(D)	Date Exerci			ration	Title	Amour or Number of Shares				
Non- Qualified Stock Option (Right to Buy)	\$ 40.14	01/31/2012		М		1,000	<u>(</u> 4	<u>1)</u>	05/2	22/201	3 Comm Stoc	1 1 ()()()	\$0	0	D	

Reporting Owners

		R	elationships	
Reporting Owner Name / Address	Director	10% Owner	Officer	Other
WALLACE RICHARD P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X		President and CEO	

Signatures

Brian M. Martin as Attorney-in-Fact for Richard P. Wallace	02/01/2012	2	2																															l											ı		2))	,	,	,)		,																				
**Signature of Reporting Person	Date																																																																												
	J																																																																												

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on December 15, 2009, as modified on December 9, 2011.

 This transaction was executed in multiple trades at prices ranging from \$51.25 to \$51.78. The price reported above reflects the weighted average sales price. The Reporting Person hereby

 (2) undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was
- (2) undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer, full information regarding the number of shares and prices at which the transaction was effected.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) Represents a stock option granted on May 22, 2003, granting the Reporting Person the right to purchase up to 1,000 shares of KLA-Tencor common stock. All of the shares subject to this stock option vested on May 22, 2004.
- Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on Form 4 within two business days of the date such assessment is made.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.